If a warning light turns on or a warning buzzer sounds...

Calmly perform the following actions if any of the warning lights comes on or flashes. However, if any of the warning lights continue to come on, have the vehicle inspected by your Lexus dealer.

Stop the vehicle immediately. Continuing to drive the vehicle may be dangerous.

The following warning indicates a possible problem in the brake system. Immediately stop the vehicle in a safe place and contact your Lexus dealer.

Warning light	Warning light/Details
BRAKE (U.S.A.) (!) (Canada)	**Brake system warning light (warning buzzer)*** • Low brake fluid • Malfunction in the brake system This light also comes on when the parking brake is not released. If the light turns off after the parking brake is fully released the system is operating normally.

*: Parking brake engaged warning buzzer

→P. 614

Stop the vehicle immediately.

The following warning indicates the possibility of damage to the vehicle that may lead to an accident. Immediately stop the vehicle in a safe place and contact your Lexus dealer.

Warning light	Warning light/Details
	Charging system warning light Indicates a malfunction in the vehicle's charging system

Have the vehicle inspected by your Lexus dealer immediately.

Failing to investigate the cause of the following warnings may lead to the system operating abnormally and possibly cause an accident. Have the vehicle inspected by your Lexus dealer immediately.

Warning light	Warning light/Details
CHECK (U.S.A.) (Canada)	**Malfunction indicator lamp** Indicates a malfunction in: • The hybrid system; • The electronic engine control system; • The electronic throttle control system; or • The emission control system
	SRS warning light Indicates a malfunction in: • The SRS airbag system; • The front passenger occupant classification system; or • The seat belt pretensioner system
ABS (U.S.A.) ABS (Canada)	**ABS warning light** Indicates a malfunction in: • The ABS; or • The brake assist system
	Brake system warning light Indicates a malfunction in: • The regenerative brake system; or • The electronically controlled brake system
	Electric power steering system warning light Indicates a malfunction in the EPS (Electric Power Steering) system

Warning light	Warning light/Details
PCS (Flashing)	**Pre-collision system warning light (if equipped)** Indicates a malfunction in the pre-collision system The warning light will operate as follows, even when the system is not malfunctioning: • The light will flash quickly when the system is operating. • The light will turn on when the system cannot temporarily be used. (→P. 614)
	Slip indicator Indicates a malfunction in: • The VSC system; • The TRAC system; or • The hill-start assist control system
AFS OFF (Flashes)	**"AFS OFF" indicator** Indicates a malfunction in the adaptive front-lighting system
AUTO (Flashes)	**Automatic High Beam indicator light** Indicates a malfunction in the automatic high beam system.

Follow the correction procedures.

After taking the specified steps to correct the suspected problem, check that the warning light goes off.

Warning light	Warning light/Details	Correction procedure
	Open door warning light (warning buzzer)*1 Indicates that one or more of the doors is not fully closed.	Check that all the doors are closed.
	Low fuel level warning light Indicates remaining fuel is approximately 2.7 gal. (10.1 L, 2.2 Imp. gal.) or less	Refuel the vehicle.
(On the instrument panel)	**Driver's seat belt reminder light (warning buzzer)*2** Warns the driver to fasten his/her seat belt.	Fasten the seat belt.
(On the center panel)	**Front passenger's seat belt reminder light (warning buzzer)*2** Warns the front passenger to fasten his/her seat belt.	Fasten the seat belt.
	Master warning light A buzzer sounds and the warning light comes on and flashes to indicate that the master warning system has detected a malfunction.	→P. 608

Warning light	Warning light/Details	Correction procedure
	Tire pressure warning light	
	When the light comes on: Low tire inflation pressure such as • Natural causes (→P. 603) • Flat tire (→P. 629)	Adjust the tire inflation pressure (including the full-size spare tire) to the specified level. The light will turn off after a few minutes. In case the light does not turn off even if the tire inflation pressure is adjusted, have the system checked by your Lexus dealer.
	When the light comes on after blinking for 1 minute: Malfunction in the tire pressure warning system (→P. 604)	Have the system checked by your Lexus dealer.

*1: Open door warning buzzer:

The open door warning buzzer sounds to alert one or more of the doors is not fully closed (with the vehicle having reached a speed of 3 mph [5 km/h]). (→P. 614)

*2: Driver's and front passenger’s seat belt buzzer:

The driver’s and front passenger’s seat belt buzzer sounds to alert the driver and front passenger that his or her seat belt is not fastened. The buzzer sounds intermittently for 10 seconds after the vehicle reaches a speed of 12 mph (20 km/h). Then, if the seat belt is still unfastened, the buzzer will sound in a different tone for 20 more seconds.

■ **SRS warning light**

This warning light system monitors the airbag sensor assembly, front airbag sensors, side and curtain shield airbag sensors, curtain shield airbag sensors, driver's seat position sensor, driver's seat belt buckle switch, front passenger occupant classification system, "AIR BAG ON" indicator light, "AIR BAG OFF" indicator light, front passenger's seat belt buckle switch, seat belt pretensioner assemblies, inflators, interconnecting wiring and power sources. (→P. 132)

■ **Front passenger detection sensor, passenger seat belt reminder and warning buzzer**

● If luggage is placed on the front passenger seat, the front passenger detection sensor may cause the warning light to flash and the warning buzzer to sound even if a passenger is not sitting in the seat.

● If a cushion is placed on the seat, the sensor may not detect a passenger, and the warning light may not operate properly.

■ **Electric power steering system warning light**

When the 12-volt battery charge becomes insufficient or the voltage temporarily drops, the electric power steering system warning light may come on.

■ **If the malfunction indicator lamp comes on while driving**

Check that the fuel tank cap is not loose. If it is, tighten the cap securely.

The lamp will go off after several driving trips.
If the light does not go off even after several trips, contact your Lexus dealer as soon as possible.

■ **When the tire pressure warning light comes on**

Check the tire inflation pressure and adjust to the appropriate level. Pushing the tire pressure warning reset switch will not turn off the tire pressure warning light.

■ **The tire pressure warning light may come on due to natural causes**

The tire pressure warning light may come on due to natural causes such as natural air leaks and tire inflation pressure changes caused by temperature. In this case, adjusting the tire inflation pressure will turn off the warning light (after a few minutes).

■ When a tire is replaced with a spare tire

The compact spare tire is not equipped with a tire pressure warning valve and transmitter. If a tire goes flat, the tire pressure warning light will not turn off even though the flat tire has been replaced with the spare tire. Replace the spare tire with the repaired tire and adjust the tire inflation pressure. The tire pressure warning light will go off after a few minutes.

■ If the tire pressure warning system is not functioning

The tire pressure warning system will be disabled in the following conditions:

(When the condition becomes normal, the system will work properly.)

- If tires not equipped with tire pressure warning valves and transmitters are used
- If the ID code on the tire pressure warning valves and transmitters is not registered in the tire pressure warning computer
- If the tire pressure warning select switch is set to a different tire setting
- If the tire inflation pressure is 73 psi (500 kPa, 5.1 kgf/cm^2 or bar) or higher

The tire pressure warning system may be disabled in the following conditions:

(When the condition becomes normal, the system will work properly.)

- If electronic devices or facilities using similar radio wave frequencies are nearby
- If a radio set at similar frequencies is in use in the vehicle
- If a window tint that affects the radio wave signals is installed
- If there is a lot of snow or ice on the vehicle, in particular around the wheels or wheel housings
- If non-genuine Lexus wheels are used (Even if you use Lexus wheels, the tire pressure warning system may not work properly with some types of tires.)
- If tire chains are used
- Vehicles with a full-size spare tire: If the spare tire is in a location subject to poor radio wave signal reception
- Vehicles with a full-size spare tire: If a large metallic object which can interfere with signal reception is put in the luggage compartment

■ If the tire pressure warning light frequently comes on after blinking for 1 minute

If the tire pressure warning light frequently comes on after blinking for 1 minute when the “POWER” switch is turned to ON mode, have it checked by your Lexus dealer.

Customization

The vehicle speed linked seat belt reminder buzzer can be disabled.
(Customizable features →P. 693)

CAUTION

If the electric power steering system warning light comes on

The steering wheel may become extremely heavy.
If the steering wheel becomes heavier than usual when operating, hold it firmly and operate it using more force than usual. If the electric power steering system warning light comes on, have the vehicle inspected by your Lexus dealer immediately.

If the tire pressure warning light comes on

Be sure to observe the following precautions. Failure to do so could cause loss of vehicle control and result in death or serious injury.

- Stop your vehicle in a safe place as soon as possible. Adjust the tire inflation pressure immediately.
- If the tire pressure warning light comes on even after tire inflation pressure adjustment, it is probable that you have a flat tire. Check the tires. If a tire is flat, change it with the spare tire and have the flat tire repaired by the nearest Lexus dealer.
- Avoid abrupt maneuvering and braking. If the vehicle tires deteriorate, you could lose control of the steering wheel or the brakes.

If a blowout or sudden air leakage should occur

The tire pressure warning system may not activate immediately.

CAUTION

■ **Maintenance of the tires**

Each tire, including the spare (if provided), should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tire inflation pressure label (tire and load information label). (If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label [tire and load information label], you should determine the proper tire inflation pressure for those tires.)

As an added safety feature, your vehicle has been equipped with a tire pressure monitoring system (TPMS-tire pressure warning system) that illuminates a low tire pressure telltale (tire pressure warning light) when one or more of your tires is significantly under-inflated. Accordingly, when the low tire pressure telltale (tire pressure warning light) illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure. Driving on a significantly under-inflated tire causes the tire to overheat and can lead to tire failure. Under-inflation also reduces fuel efficiency and tire tread life, and may affect the vehicle's handling and stopping ability.

Please note that the TPMS (tire pressure warning system) is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale (tire pressure warning light).

Your vehicle has also been equipped with a TPMS (tire pressure warning system) malfunction indicator to indicate when the system is not operating properly. The TPMS (tire pressure warning system) malfunction indicator is combined with the low tire pressure telltale (tire pressure warning light). When the system detects a malfunction, the telltale will flash for approximately one minute and then remain continuously illuminated. This sequence will continue upon subsequent vehicle start-ups as long as the malfunction exists. When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire pressure as intended.

TPMS (tire pressure warning system) malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS (tire pressure warning system) from functioning properly. Always check the TPMS (tire pressure warning system) malfunction telltale after replacing one or more tires or wheels on your vehicle to ensure that the replacement or alternate tires and wheels allow the TPMS (tire pressure warning system) to continue to function properly.

NOTICE

■ Precaution when installing a different tire

When a tire of a different specification or maker is installed, the tire pressure warning system may not operate properly.

If a warning message is displayed

If a warning is shown on the multi-information display, stay calm and perform the following actions:

1 Multi-information display

A warning message is displayed.

2 Master warning light

The master warning light also comes on or flashes in order to indicate that a message is currently being displayed on the multi-information display.

If any of the warning lights comes on again after the following actions have been performed, contact your Lexus dealer.

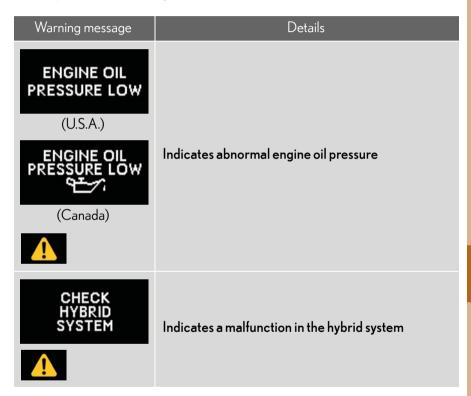
Stop the vehicle immediately. Continuing to drive the vehicle may be dangerous.

The following warning indicates a possible problem in the brake system. Immediately stop the vehicle in a safe place and contact your Lexus dealer.

Warning message	Details
BRAKE MALFUNCTION	**Indicates the following:** • The brake fluid level is low; or, • The brake system is malfunctioning. A buzzer also sounds.
CHECK BRAKE SYSTEM	**Indicates a malfunction in:** • The regenerative brake system; or, • The electronically controlled brake system

Stop the vehicle immediately.

A buzzer sounds and a warning message is shown on the multi-information display. The following warning indicates the possibility of damage to the vehicle that may lead to an accident. Immediately stop the vehicle in a safe place and contact your Lexus dealer.

Warning message	Details
ENGINE OIL PRESSURE LOW (U.S.A.) ENGINE OIL PRESSURE LOW (Canada)	Indicates abnormal engine oil pressure
CHECK HYBRID SYSTEM	Indicates a malfunction in the hybrid system

Have the vehicle inspected by your Lexus dealer immediately.

A buzzer sounds and a warning message is shown on the multi-information display. Failure to investigate the cause of the following warnings may lead to the system operating abnormally and possibly cause an accident. Have the vehicle inspected by your Lexus dealer immediately.

Warning message	Details
CHECK AWD SYSTEM (AWD models)	Indicates a malfunction in the AWD system
CHECK STEERING LOCK SYSTEM	Indicates a malfunction in the steering lock system
CHECK AIR SUSPENSION SYSTEM (If equipped)	Indicates a malfunction in the electronically modulated air suspension system

Warning message	Details
CHECK AFS SYSTEM AFS OFF (Flashes) (If equipped)	Indicates a malfunction in the adaptive front lighting system
CHECK HEADLIGHT SYSTEM (Flashes) (If equipped)	Indicates a malfunction in the LED headlight system
CHECK BRAKE LAMP SYSTEM	Indicates a malfunction in the brake light system
CHECK PCS SYSTEM PCS (Flashes) (If equipped)	Indicates a malfunction in the pre-collision system

Warning message	Details
CHECK SONAR (If equipped)	**Indicates a malfunction in the intuitive parking assist** The malfunctioning assist-sensor is flashing.
CHECK CRUISE CONTROL SYSTEM (Flashes) or (Flashes) (If equipped)	**Indicates a malfunction in the radar cruise control system** Press the “ON-OFF” button once to deactivate the system, and then press the button again to reactivate the system.
CHECK HEADLIGHT LEVELING SYSTEM (If equipped)	**Indicates a malfunction in the automatic headlight leveling system**

Warning message	Details
CHECK SRS SYSTEM AIRBAG	**Indicates a malfunction in:** • The SRS airbag system; • The front passenger occupant classification system; or, • The seat belt pretensioner system
CHECK ABS	**Indicates a malfunction in:** • The ABS; or, • The brake assist system
CHECK POWER STEERING SYSTEM	**Indicates a malfunction in the EPS (Electric Power Steering) system**

Follow the correction procedures.

A buzzer sounds and a warning message is shown on the multi-information display. After taking the specified steps to correct the suspected problem, check that the warning message goes off.

Warning message	Details	Correction procedure
	Indicates that one or more of the doors is not fully closed The system also indicates which doors are not fully closed. If the vehicle reaches a speed of 3 mph (5 km/h), a buzzer sounds to indicate that the door(s) are not yet fully closed.	Make sure that all the doors are closed.
HOOD OPEN	**Indicates that the hood is not fully closed** If the vehicle reaches a speed of 3 mph (5 km/h), a buzzer sounds to indicate that the hood is not yet fully closed.	Close the hood.

Warning message	Details	Correction procedure
BACK OPEN	**Indicates that the back door is not fully closed** If the vehicle reaches a speed of 3 mph (5 km/h), a buzzer sounds to indicate that the back door is not yet fully closed.	Close the back door.
MOONROOF OPENED (Flashes) (If equipped)	**Indicates that the moon roof is not fully closed (with the "POWER" switch off, and the driver's door open)**	Close the moon roof.
RELEASE PARKING BRAKE	**Indicates that the parking brake is still engaged** If the vehicle reaches a speed of 3 mph (5 km/h), flashes and a buzzer sounds to indicate that the parking brake is still engaged.	Release the parking brake.
LOW WASHER FLUID	**Indicates that the washer fluid level is low**	Add washer fluid.

Warning message	Details	Correction procedure
OIL MAINTENANCE REQUIRED SOON (U.S.A. only)	**Indicates that all maintenance according to the driven distance on the maintenance schedule* should be performed soon.** **Comes on approximately 4500 miles (7200 km) after the maintenance data has been reset.**	If necessary, perform maintenance.
OIL MAINTENANCE REQUIRED (U.S.A. only)	**Indicates that all maintenance is required to correspond to the driven distance on the maintenance schedule*.**	Perform the necessary maintenance. Please reset the maintenance data after the maintenance is performed. (→P. 499)
PCS TEMPORARILY NOT AVAILABLE PCS (If equipped)	**Indicates that the pre-collision safety system is not currently functional because the grille or the sensor is dirty.** This message also appears when the pre-collision system is not functional due to overheating.	• Check the grille and the sensor (→P. 282) and clean them if they are dirty. • In case of overheating, the system will become functional once the system cools down.

Warning message	Details	Correction procedure
CLEAN SONAR (If equipped)	**Indicates that intuitive parking assist is dirty or covered with ice** A buzzer also sounds. The site of the malfunction and the vehicle image are flashing.	Clean the sensor.
CLEAN RADAR SENSOR (Flashes) (If equipped)	**Indicates that the radar cruise control sensor is dirty or covered with ice** A buzzer also sounds.	Clean the sensor.
CRUISE CONTROL NOT AVAILABLE (Flashes) (If equipped)	**Indicates that the radar cruise control system is unable to judge vehicle-to-vehicle distance** A buzzer also sounds.	• Switch driving mode to normal. • If the windshield wipers are on, turn them off or set them to a mode other than AUTO or high speed wiper operation.

Warning message	Details	Correction procedure
60 MPH SET (Flashes) (If equipped)	**Indicates that your vehicle is nearing the vehicle ahead (in radar cruise mode)** At the same time, will appear on the head-up display (the image flashes).	Slow the vehicle by applying the brakes.
ENGINE OVERHEAT	**Indicates that the engine has overheated** A buzzer also sounds.	Stop and check. (→P. 655)
HYBRID SYSTEM OVERHEAT	**Indicates that the hybrid system has overheated** A buzzer also sounds.	Stop and check. (→P. 655)
LOW FUEL	**Indicates that remaining fuel is approximately 2.7 gal. (10.1 L, 2.2 Imp. gal.) or less**	Refuel the vehicle.

Warning message	Details	Correction procedure
LOW TRACTION BATTERY SHIFT TO P RANGE (Flashes)	**Indicates that the hybrid battery (traction battery) is low.**	• If a buzzer sounds intermittently, stop the vehicle in a safe place and shift the shift lever to P to charge the hybrid battery (traction battery). • If a buzzer sounds continuously, immediately stop the vehicle in a safe place. Turn the “POWER” switch off and then to ON mode to restart the hybrid system. Ensuring the shift lever is in P, charge the hybrid battery (traction battery).
SHIFT TO P RANGE WHEN PARKED (Flashes)	**Indicates that the driver’s door is opened when the hybrid transmission is out of P with the hybrid system on.**	Shift the shift lever to P.

*: Refer to the separate “Scheduled Maintenance” or “Owner's Manual Supplement” for the maintenance interval applicable to your vehicle.

Messages displayed when refueling

The following messages are displayed after the fuel filler door opener is pressed. If the messages do not change or are displayed continuously, have the vehicle checked by your Lexus dealer.

Message	Details
PLEASE WAIT NOW OPENING	**Preparing the vehicle for refueling.** Wait a moment.
REFUEL READY	**You may commence refueling.** Finish refueling within 30 minutes.
CLOSE FUEL LID	**Close the fuel filler door.**

Have the malfunction repaired immediately

After taking the specified steps to correct the suspected problem, check that the warning message and light go off.

Interior buzzer	Exterior buzzer	Warning message	Details	Correction procedure
Sounds once	—	KEY NOT DETECTED (Flashes)	The electronic key is not detected when an attempt is made to start the hybrid system.	Confirm the location of the electronic key.
Sounds once	Sounds 3 times	KEY NOT DETECTED (Flashes)	The electronic key was carried outside the vehicle and a door other than the driver's door was opened and closed while the “POWER” switch was in a mode other than off.	Bring the electronic key back into the vehicle.
			The driver's door was opened and closed while the electronic key was not in the vehicle, the shift lever was in P and the “POWER” switch was not turned off.	Turn the “POWER” switch off or bring the electronic key back into the vehicle.

Interior buzzer	Exterior buzzer	Warning message	Details	Correction procedure
Sounds once	Sounds once	KEY NOT DETECTED TURN POWER OFF (Displayed alternately) (Flashes)	An attempt was made to exit the vehicle with the electronic key and lock the doors without first turning the “POWER” switch off.	Turn the “POWER” switch off and lock the doors again.
Sounds once	—	KEY NOT DETECTED (Flashes)	An attempt was made to start the hybrid system without the electronic key being present, or the electronic key was not functioning normally. An attempt was made to drive when the regular key was not inside the vehicle.	Confirm that the electronic key is inside the vehicle.
Continuous	—	SHIFT TO P RANGE (Flashes)	The driver’s door was opened when the shift lever was not in P and the “POWER” switch was not turned off.	Shift the shift lever to P.

Interior buzzer	Exterior buzzer	Warning message	Details	Correction procedure
Con-tinuous	Con-tinuous	SHIFT TO P RANGE KEY NOT DETECTED (Displayed alternately) (Flashes)	The driver's door was opened and closed while the electronic key was not in the vehicle, the shift lever was not in P and the “POWER” switch was not turned off.	• Shift the shift lever to P. • Bring the elec-tronic key back into the vehicle.

Interior buzzer	Exterior buzzer	Warning message	Details	Correction procedure
Sounds once	Con-tinuous	KEY DETECTED IN VEHICLE (Flashes)	An attempt was made to lock the doors using the smart access system with push-button start while the electronic key was still inside the vehicle.	Retrieve the electronic key from the vehicle and lock the doors again.
			An attempt was made to lock either front door by opening a door and putting the inside lock button into the lock position, then closing the door by pulling on the outside door handle with the electronic key still inside the vehicle.	

Interior buzzer	Exterior buzzer	Warning message	Details	Correction procedure
Sounds once	—	DEPRESS BRAKE PEDAL, TOUCH POWER SWITCH WITH KEY (Flashes)	• When the doors were unlocked with the mechanical key and then the "POWER" switch was pressed, the electronic key could not be detected in the vehicle. • The electronic key could not be detected in the vehicle even after the "POWER" switch was pressed two consecutive times.	Touch the electronic key to the "POWER" switch while depressing the brake pedal.
Sounds once	—	SHIFT TO P RANGE TO START (Flashes)	An attempt was made to start the hybrid system with the shift lever in an incorrect position.	Shift the shift lever to P and start the hybrid system.

Interior buzzer	Exterior buzzer	Warning message	Details	Correction procedure
Sounds once	—	SHIFT TO P RANGE AND PUSH POWER SWITCH TO TURN POWER OFF (Flashes)	An attempt was made to turn the "POWER" switch off when the shift lever was not in P.	To turn off the hybrid system, first shift the shift lever to P and then turn the "POWER" switch off.
—	—	AUTO POWER OFF TO CONSERVE BATTERY	Power was turned off due to the automatic power off function.	Next time when starting the hybrid system, increase the hybrid system speed slightly and maintain that level for approximately 5 minutes to recharge the 12-volt battery.
Sounds once	—	KEY BATTERY LOW	The electronic key has a low battery.	Replace the electronic key battery. (→P. 550)

Interior buzzer	Exterior buzzer	Warning message	Details	Correction procedure
Sounds once	—	DEPRESS BRAKE PEDAL AND PUSH POWER SWITCH TO START (Flashes)	The driver's door was opened and closed with the "POWER" switch turned off and then the "POWER" switch was put in ACCESSORY mode twice without the hybrid system being started.	Press the "POWER" switch while depressing the brake pedal.
			During an hybrid system starting procedure in the event that the electronic key was not functioning properly (→P. 647), the "POWER" switch was touched with the electronic key.	Press the "POWER" switch within 10 seconds of the buzzer sounding.
Sounds once	—	STEERING LOCK ACTIVE (Flashes)	The steering lock could not be released within 3 seconds of the "POWER" switch being pressed.	Press the "POWER" switch while depressing the brake pedal and moving the steering wheel left and right.

■ Warning light display in radar cruise mode

In the following cases, the warning light may not be displayed even if vehicle-to-vehicle distance decreases:

- When your vehicle and the vehicle ahead are traveling at the same speed or the vehicle ahead is traveling more quickly than your vehicle
- When the vehicle ahead is traveling at a very low speed
- Immediately after cruise control speed is set
- At the instant the accelerator pedal is depressed

■ After changing the engine oil (U.S.A. only)

Make sure to reset the oil maintenance data. (→P. 515)

If you have a flat tire

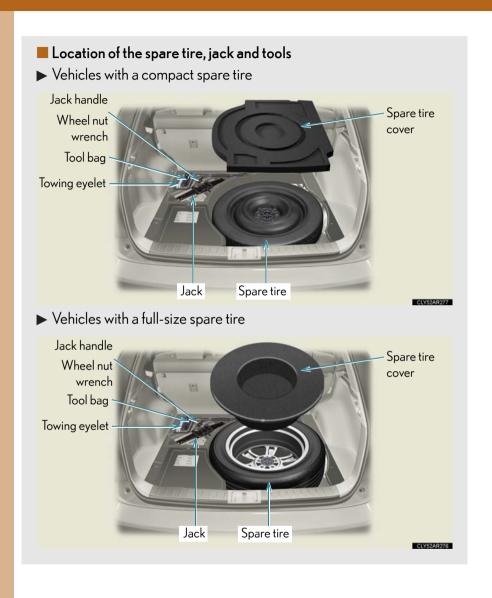
Remove the flat tire and replace it with the spare provided.

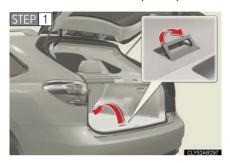
Before jacking up the vehicle

- Stop the vehicle on a hard, flat surface.
- Set the parking brake.
- Shift the shift lever to P.
- Vehicles with electronically modulated air suspension: Turn off the height control. (→P. 264)
- Stop the hybrid system.
- Turn on the emergency flashers.

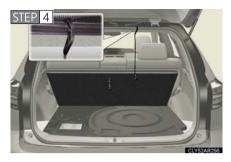
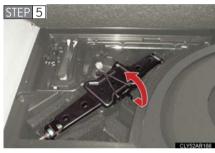
Location of the spare tire, jack and tools

▶ Vehicles with a compact spare tire

▶ Vehicles with a full-size spare tire

Taking out the jack

▶ Vehicles with a compact spare tire

Pull the lever upward to fold back the front part of the deck board.

Pull the folded deck board upright.

Pull on the attached hook to extend the string.

Use the hook to secure the deck board as shown in the illustration.

Remove the jack after removing the hook.

▶ Vehicles with a full-size spare tire

Pull the lever upward to fold back the front part of the deck board.

Pull on the attached hook to extend the string.

Use the hook to secure the deck board as shown in the illustration.

Remove the jack after removing the hook.

Taking out the spare tire

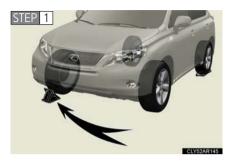
STEP 1 Lift up the deck board. (See "Taking out the jack" for details.)

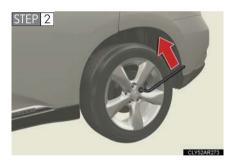
STEP 2 Remove the spare tire cover.

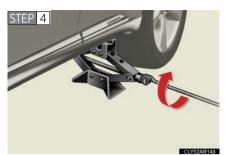
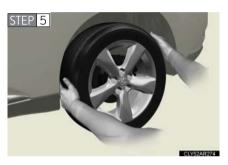
STEP 3 Loosen the center fastener that secures the spare tire.

▶ Vehicles with a compact spare tire

▶ Vehicles with a full-size spare tire

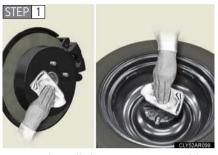
Replacing a flat tire

Chock the tires.

Flat tire		Wheel chock positions
Front	Left-hand side	Behind the rear right-hand side tire
	Right-hand side	Behind the rear left-hand side tire
Rear	Left-hand side	In front of the front right-hand side tire
	Right-hand side	In front of the front left-hand side tire

Slightly loosen the wheel nuts (one turn).

Turn the tire jack portion “A” by hand until the notch of the jack is in contact with the jack point.

Raise the vehicle until the tire is slightly raised off the ground.

Remove all the wheel nuts and the tire.

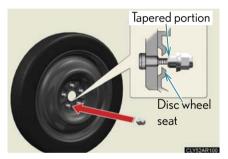
When resting the tire on the ground, place the tire so that the wheel design faces up to avoid scratching the wheel surface.

Installing the spare tire

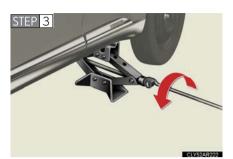
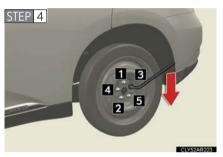
STEP 1

Remove any dirt or foreign matter from the wheel contact surface.

If foreign matter is on the wheel contact surface, the wheel nuts may loosen while the vehicle is in motion, causing the tire to come off.

STEP 2 Install the spare tire and loosely tighten each wheel nut by hand by approximately the same amount.

▶ Vehicles with a compact spare tire

Tighten the nuts until the tapered portion comes into loose contact with the disc wheel seat.

▶ Vehicles with a full-size spare tire

Turn the nuts until the washers come into contact with the wheel.

Lower the vehicle.

Firmly tighten each wheel nut two or three times in the order shown in the illustration.

Tightening torque:
76 ft•lbf (103 N•m, 10.5 kgf•m)

STEP 5 Stow the flat tire, tire jack and all tools.

The compact spare tire

- The compact spare tire is identified by the label “TEMPORARY USE ONLY” on the tire sidewall.
  Use the compact spare tire temporarily, and only in an emergency.
- Make sure to check the tire inflation pressure of the compact spare tire. (→P. 673)

When using the compact spare tire

As the compact spare tire is not equipped with a tire pressure warning valve and transmitter, low inflation pressure of the spare tire will not be indicated by the tire pressure warning system. Also, if you replace the compact spare tire after the tire pressure warning light comes on, the light remains on.

If you have a flat front tire on a road covered with snow or ice

Install the compact spare tire on one of the rear wheels of the vehicle. Perform the following steps and fit tire chains to the front tires:

STEP 1 Replace a rear tire with the compact spare tire.

STEP 2 Replace the flat front tire with the tire removed from the rear of the vehicle.

STEP 3 Fit tire chains to the front tires.

After completing the tire change

The tire pressure warning system (if equipped) must be reset. (→P. 533)

CAUTION

Using the tire jack

Improper use of the tire jack may cause the vehicle to suddenly fall off the jack, leading to death or serious injury.

- Do not use the tire jack for any purpose other than replacing tires or installing and removing tire chains.
- Only use the tire jack that comes with this vehicle for replacing a flat tire.
  Do not use it on other vehicles, and do not use other tire jacks for replacing tires on this vehicle.
- Always check that the tire jack is securely set to the jack point.
- Do not put any part of your body under the vehicle while it is supported by the jack.
- Do not start or run the hybrid system while your vehicle is supported by the jack.
- Do not raise the vehicle while someone is inside.
- When raising the vehicle, do not put an object on or under the jack.
- Do not raise the vehicle to a height greater than that required to replace the tire.
- Use a jack stand if it is necessary to get under the vehicle.
- Vehicles with electronically modulated air suspension: Be sure to turn off the height control and stop the hybrid system.

Take particular care when lowering the vehicle to ensure that no one working on or near the vehicle may be injured.

⚠ CAUTION

■ Replacing a flat tire

Observe the following precautions to reduce the risk of death or serious injury:

- Do not touch the disc wheels or the area around the brakes immediately after the vehicle has been driven.
  After the vehicle has been driven the disc wheels and the area around the brakes will be extremely hot. Touching these areas with hands, feet or other body parts while changing a tire, etc. may result in burns.
- Failure to follow these precautions could cause the wheel nuts to loosen and the tire to fall off, resulting in death or serious injury.
  - Never use oil or grease on the wheel bolts or wheel nuts.
    Oil and grease may cause the wheel nuts to be excessively tightened, leading to bolt or disc wheel damage. In addition, the oil or grease can cause the wheel nuts to loosen and the wheel may fall off, causing a serious accident. Remove any oil or grease from the wheel bolts or wheel nuts.
  - Have the wheel nuts tightened with a torque wrench to 76 ft•lbf (103 N•m, 10.5 kgf•m) as soon as possible after changing wheels.
  - When installing a tire, only use wheel nuts that have been specifically designed for that wheel.
  - If there are any cracks or deformations in the bolt screws, nut threads or bolt holes of the wheel, have the vehicle inspected by your Lexus dealer.

Failure to follow these precautions could cause the wheel nuts to loosen and the tire to fall off, resulting in death or serious injury.

■ Replacing a flat tire for vehicles with power back door

In cases such as when replacing tires, make sure to turn off the power back door main switch (→P. 72). Failure to do so may cause the back door to operate unintentionally if the power back door switch is accidentally touched, resulting in hands and fingers being caught and injured.

■ When using the compact spare tire

- Remember that the compact spare tire provided is specifically designed for use with your vehicle. Do not use your compact spare tire on another vehicle.
- Do not use more than one compact spare tire simultaneously.
- Replace the compact spare tire with a standard tire as soon as possible.
- Avoid sudden acceleration, deceleration and braking, as well as sharp cornering.

CAUTION

■ **When the compact spare tire is attached**

The vehicle speed may not be correctly detected, and the following systems may not operate correctly:

- ABS & Brake assist
- VSC
- TRAC
- VDIM
- Intuitive parking assist (if equipped)
- Navigation system (if equipped)
- Cruise control (if equipped)
- Dynamic radar cruise control (if equipped)
- Electronically modulated air suspension (if equipped)
- Pre-Collision System (if equipped)

Also, not only can the following system not be utilized fully, but it may even negatively affect the drive-train components:

- AWD system (if equipped)

■ **Speed limit when using the compact spare tire**

Do not drive at speeds in excess of 50 mph (80 km/h) when a compact spare tire is installed on the vehicle.

The compact spare tire is not designed for driving at high speeds. Failure to observe this precaution may lead to an accident causing death or serious injury.

NOTICE

■ **Do not drive the vehicle with a flat tire**

Do not continue driving with a flat tire.
Driving even a short distance with a flat tire can damage the tire and the wheel beyond repair.

■ **Be careful when driving over bumps with the compact spare tire installed on the vehicle.**

The vehicle becomes lower when driving with the compact spare tire compared to when driving with standard tires. Be careful when driving over uneven road surfaces.

■ **Driving with tire chains and the compact spare tire**

Do not fit tire chains to the compact spare tire.
Tire chains may damage the vehicle body and adversely affect driving performance.

■ **When replacing the tires**

When removing or fitting the wheels, tires or the tire pressure warning valve and transmitter, contact your Lexus dealer as the tire pressure warning valve and transmitter may be damaged if not handled correctly.

■ **To avoid damage to the tire pressure warning valves and transmitters**

When a tire is repaired with liquid sealants, the tire pressure warning valve and transmitter may not operate properly. If a liquid sealant is used, contact your Lexus dealer or other qualified service shop as soon as possible. Make sure to replace the tire pressure warning valve and transmitter when replacing the tire. (→P. 533)

If the hybrid system will not start

Reasons for the hybrid system not starting vary depending on the situation. Check the following and perform the appropriate procedure:

■ The hybrid system will not start even though the correct starting procedure is being followed. (→P. 176)

One of the following may be the cause of the problem:

- The electronic key may not be functioning properly. (→P. 648)
- There may be a malfunction in the immobilizer system. (→P. 124)
- There may be a malfunction in the steering lock system.
- The hybrid system may be malfunctioning due to an electrical problem such as an open circuit or a blown fuse. However, depending on the type of malfunction, an interim measure is available to start the hybrid system. (→P. 644)

■ The interior lights and headlights are dim, or the horn does not sound or sounds at a low volume.

One of the following may be the cause of the problem:

- The 12-volt battery may be discharged. (→P. 650)
- The 12-volt battery terminal connections may be loose or corroded.

■ The interior lights and headlights do not turn on, or the horn does not sound.

One of the following may be the cause of the problem:

- One or both of the 12-volt battery terminals may be disconnected.
- The 12-volt battery may be discharged. (→P. 650)

Contact your Lexus dealer if the problem cannot be repaired, or if repair procedures are unknown.

Emergency start function

When the hybrid system does not start, the following steps can be used as an interim measure to start the hybrid system if the "POWER" switch is functioning normally:

STEP 1 Set the parking brake.

STEP 2 Shift the shift lever to P.

STEP 3 Turn the "POWER" switch to ACCESSORY mode.

STEP 4 Press and hold the "POWER" switch for about 15 seconds while depressing the brake pedal firmly.

Even if the hybrid system can be started using the above steps, the system may be malfunctioning. Have the vehicle inspected by your Lexus dealer.

If the shift lever cannot be shifted from P

If the shift lever cannot be shifted with your foot on the brake pedal, there may be a problem with the shift lock system (a system to prevent accidental operation of the shift lever). Have the vehicle inspected by your Lexus dealer immediately.

The following steps may be used as an emergency measure to ensure that the shift lever can be shifted:

STEP 1 Set the parking brake.

STEP 2 Turn the "POWER" switch to ACCESSORY mode.

STEP 3 Depress the brake pedal.

Pry the cover up with a flathead screwdriver or equivalent.

Press the shift lock override button.

The shift lever can be shifted while the button is pressed.

If you lose your keys

New genuine Lexus keys can be made by your Lexus dealer using the other keys and the key number stamped on your key number plate.

If the electronic key does not operate properly

If communication between the electronic key and vehicle is interrupted (→P. 57) or the electronic key cannot be used because the battery is depleted, the smart access system with push-button start and wireless remote control cannot be used. In such cases, the doors can be opened and the hybrid system can be started by following the procedure below.

Locking and unlocking the side doors and key linked functions

Use the mechanical key (→P. 48) in order to perform the following operations (driver's door only):

1. Locks all the doors
2. Closes the windows and moon roof (turn and hold)
3. Unlocks the door

   Turning the key rearward unlocks the driver's door. Turning the key once again unlocks the other doors.

4. Opens the windows and moon roof (turn and hold)

Changing “POWER” switch modes and starting the hybrid system

STEP 1 Ensure that the shift lever is in P and depress the brake pedal.

STEP 2

Touch the Lexus emblem side of the electronic key to the “POWER” switch.

If any of the doors is opened or closed while the key is being touched to the switch, an alarm will sound to indicate that the start function cannot detect the electronic key.

STEP 3 To change “POWER” switch modes: Within 10 seconds of the buzzer sounding, release the brake pedal and press the “POWER” switch. Modes can be changed each time the switch is pressed. (→P. 177)

To start the hybrid system: Press the “POWER” switch within 10 seconds of the buzzer sounding, keeping the brake pedal depressed.

In the event that the hybrid system still cannot be operated, contact your Lexus dealer.

■ **Stopping the hybrid system**

Shift the shift lever to P and press the “POWER” switch as you normally do when stopping the hybrid system.

■ **Replacing the key battery**

As the above procedure is a temporary measure, it is recommended that the electronic key battery be replaced immediately when the battery is depleted.
(→P. 550)

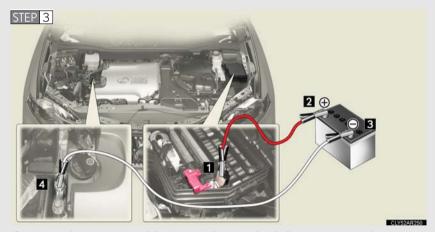
If the vehicle 12-volt battery is discharged

The following procedures may be used to start the hybrid system if the vehicle's 12-volt battery is discharged.
You can also call your Lexus dealer or a qualified repair shop.

If you have a set of jumper (or booster) cables and a second vehicle with a 12-volt battery, you can jump start your vehicle by following the steps below.

STEP 1 Open the hood and remove the engine compartment covers. (→P. 513)

STEP 2 Remove the fuse box cover and open the exclusive jump starting terminal cover.

STEP 3

Connect the jumper cables according to the following procedure:

1. Connect a positive jumper cable clamp to the exclusive jump starting terminal on your vehicle
2. Connect a positive jumper cable clamp to the positive (+) battery terminal on the second vehicle
3. Connect a negative cable clamp to the negative (-) battery terminal on the second vehicle

4 Connect the clamp at the other end of the negative cable to a solid, stationary, unpainted metallic point away from the exclusive jump starting terminal and any moving parts, as shown in the illustration.

STEP 4 Start the engine of the second vehicle. Increase the engine speed slightly and maintain that level for approximately 5 minutes to recharge the 12-volt battery of your vehicle.

STEP 5 Open and close any of the doors of your vehicle with the "POWER" switch off.

STEP 6 Maintain the engine speed of the second vehicle and start the hybrid system of your vehicle by turning the "POWER" switch to ON mode.

STEP 7 Make sure the "READY" indicator comes on. If the indicator does not come on, contact your Lexus dealer.

STEP 8 Once the hybrid system has started, remove the jumper cables in the exact reverse order from which they were connected.

Once the hybrid system starts, have the vehicle inspected at your Lexus dealer as soon as possible.

■ **Starting the hybrid system when the 12-volt battery is discharged**

The hybrid system cannot be started by push-starting.

■ **To prevent 12-volt battery discharge**

- Turn off the headlights and the audio system while the hybrid system is off.
- Turn off any unnecessary electrical components when the vehicle is running at a low speed for an extended period, such as in heavy traffic.

■ **When the 12-volt battery is removed or discharged**

- The power back door must be initialized. (→P. 702)
- The hybrid system may not start. (→P. 529)

■ **Charging the 12-volt battery**

The electricity stored in the 12-volt battery will discharge gradually even when the vehicle is not in use, due to natural discharge and the draining effects of certain electrical appliances. If the vehicle is left for a long time, the 12-volt battery may discharge, and the hybrid system may be unable to start. (The 12-volt battery recharges automatically while the hybrid system is operating.)

⚠ CAUTION

■ **Avoiding 12-volt battery fires or explosions**

Observe the following precautions to prevent accidentally igniting the flammable gas that may be emitted from the 12-volt battery:

- Make sure each jumper cable is connected to the correct terminal and that it is not unintentionally in contact with any other than the intended terminal.
- Do not allow the other end of the jumper cable connected to the "+" terminal to come into contact with any other parts or metal surfaces in the area, such as brackets or unpainted metal.
- Do not allow the + and - clamps of the jumper cables to come into contact with each other.
- Do not smoke, use matches, cigarette lighters or allow open flame near the 12-volt battery.

CAUTION

12-volt battery precautions

The 12-volt battery contains poisonous and corrosive acidic electrolyte, while related parts contain lead and lead compounds. Observe the following precautions when handling the 12-volt battery:

- When working with the 12-volt battery, always wear safety glasses and take care not to allow any battery fluids (acid) to come into contact with skin, clothing or the vehicle body.
- Do not lean over the 12-volt battery.
- In the event that battery fluid comes into contact with the skin or eyes, immediately wash the affected area with water and seek medical attention.
  Place a wet sponge or cloth over the affected area until medical attention can be received.
- Always wash your hands after handling the battery support, terminals, and other battery-related parts.
- Do not allow children near the 12-volt battery.

After recharging the 12-volt battery

Have the 12-volt battery inspected at your Lexus dealer as soon as possible.
If the 12-volt battery is deteriorating, continued use may cause the 12-volt battery to emit a malodorous gas, which may be detrimental to the health of passengers.

When replacing the 12-volt battery

→P. 531

NOTICE

■ **When handling jumper cables**

When connecting the jumper cables, ensure that they do not become entangled in the cooling fans or belt.

■ **Avoiding accidental short-circuits**

When connecting jumper cables, observe the following precautions:

- Make sure each jumper cable is connected to the correct terminal.
- Do not allow the ends of the jumper cable used for the "+" terminals to come into contact with any other parts or metal surfaces in the area, such as brackets or unpainted metal.
- Do not allow the "+" and "-" terminals of the jumper cables to come into contact with each other.

■ **Exclusive jump starting terminal precaution**

The exclusive jump starting terminal is to be used when charging the 12-volt battery from another vehicle in an emergency. It cannot be used to jump start another vehicle.

If your vehicle overheats

The following may indicate that your vehicle is overheating:

- "ENGINE OVERHEAT" is shown on the multi-information display:
  The engine may be overheating.
- "HYBRID SYSTEM OVERHEAT" is shown on the multi-information display:
  A hybrid system component such as the power control unit or an electric motor (traction motor) may be overheating.

Follow the correction procedure as described below.

Correction procedures

■ If "ENGINE OVERHEAT" is shown on the multi-information display

STEP 1 Stop the vehicle in a safe place and turn off the air conditioning system.

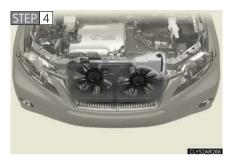
STEP 2 Check to see if steam is coming out from the engine area.

If you see steam:
Stop the hybrid system. Carefully lift the hood after the steam subsides and then restart the hybrid system.

If you do not see steam:
Leave the hybrid system operating and carefully lift the hood.

STEP 3 Check to see if the cooling fans are operating.

If the fans are operating:
Wait until the "ENGINE OVERHEAT" message disappears and then stop the hybrid system.

If the fans are not operating:
Stop the hybrid system immediately and call your Lexus dealer.

After the hybrid system has cooled down sufficiently, check the engine coolant level and inspect the cooling system for leaks.

If the engine compartment cover needs to be removed. (→P. 513)

Add engine coolant if necessary.

Water can be used in an emergency if engine coolant is unavailable. (→P. 670)

Have the vehicle inspected at the nearest Lexus dealer as soon as possible.

If "HYBRID SYSTEM OVERHEAT" is shown on the multi-information display

STEP 1 Stop the vehicle in a safe place and turn off the air conditioning system.

Ensure that the opening for the oil cooler is not blocked by dirt or any other foreign substance. If the opening is not blocked or if the message does not disappear after some time the opening has been cleaned, proceed to STEP 2.

STEP 2 Leave the hybrid system operating and carefully lift the hood.

STEP 3 Check if the cooling fans are operating.

If the fans are operating:
Wait until the "HYBRID SYSTEM OVERHEAT" message disappears and then stop the hybrid system.
If the message does not disappear, call your Lexus dealer.

If the fans are not operating:
Stop the hybrid system immediately and call your Lexus dealer.

STEP 4 After the hybrid system has cooled down, check the power control unit coolant level and inspect the cooling system for leaks.

If the engine compartment cover needs to be removed. (→P. 513)

Add power control unit coolant if necessary.

Water can be used in an emergency if power control unit coolant is unavailable. (→P. 670)

Have the vehicle inspected at the nearest Lexus dealer as soon as possible.

■ **Overheating**

The following symptoms may occur when your vehicle is overheating:

- Hybrid system output decreases.
- Steam comes out from the engine area.

⚠ CAUTION

■ **To prevent an accident or injury when inspecting under the hood of your vehicle**

- If steam is seen coming from under the hood, do not open the hood until the steam has subsided. The engine compartment may be very hot, causing serious injuries such as burns.
- Check that the indicator on the "POWER" switch and the "READY" indicator are off.
- For vehicles with a hybrid system, there are times when the gasoline engine automatically starts to run or the cooling fans suddenly start to operate. Do not touch or approach the rotating parts of the belt or fans. Doing so may lead to fingers, clothes or tools getting caught, resulting in injury.
- Do not loosen the radiator cap while the hybrid system and radiator are hot. Serious injuries, such as burns, may result from hot coolant and steam released under pressure.

NOTICE

■ **When adding engine/power control unit coolant**

Wait until the hybrid system has cooled down before adding engine/power control unit coolant.
When adding coolant, do so slowly. Adding cool coolant to a hot hybrid system too quickly can cause damage to the hybrid system.

■ **To prevent damage to the cooling system**

Observe the following precautions:

- Avoid contaminating the coolant with foreign matter (such as sand or dust etc.).
- Do not use commercially available coolant additives.

If the vehicle becomes stuck

Carry out the following procedures if the tires spin or the vehicle becomes stuck in mud, dirt or snow:

STEP 1 Stop the hybrid system. Set the parking brake and shift the shift lever to P.

STEP 2 Remove the mud, snow or sand from around the stuck tire.

STEP 3 Place wood, stones or some other material under the tires to help provide traction.

STEP 4 Restart the hybrid system.

STEP 5 Shift the shift lever to the D or R position and carefully apply the accelerator to free the vehicle.

Turn off the TRAC and VSC systems if these functions are hampering your attempts to free the vehicle. (→P. 276)

CAUTION

■ When attempting to free a stuck vehicle

If you choose to push the vehicle back and forth to free it, make sure the surrounding area is clear to avoid striking other vehicles, objects or people. The vehicle may also lunge forward or lunge back suddenly as it becomes free. Use extreme caution.

■ When shifting the shift lever

Be careful not to shift the shift lever with the accelerator pedal depressed.
This may lead to unexpected rapid acceleration of the vehicle that may cause an accident resulting in death or serious injury.

NOTICE

■ To avoid damage to the hybrid transmission and other components

- Avoid spinning the wheels.
- If the vehicle remains stuck even after these procedures are performed, the vehicle may require towing to be freed.

If your vehicle has to be stopped in an emergency

Only in an emergency, such as if it becomes impossible to stop the vehicle in the normal way, stop the vehicle using the following procedure:

STEP 1 Steadily step on the brake pedal with both feet and firmly depress it.

Do not pump the brake pedal repeatedly as this will increase the effort required to slow the vehicle.

STEP 2 Shift the shift lever to N.

▶ If the shift lever is shifted to N

STEP 3 After slowing down, stop the vehicle in a safe place by the road.

STEP 4 Stop the hybrid system.

▶ If the shift lever cannot be shifted to N

STEP 3 Keep depressing the brake pedal with both feet to reduce vehicle speed as much as possible.

STEP 4

Stop the hybrid system by pressing and holding the “POWER” switch for 3 consecutive seconds or more.

STEP 5 Stop the vehicle in a safe place by the road.

⚠ CAUTION

■ If the hybrid system has to be turned off while driving

Power assist for the brakes and steering wheel will be lost, making the brake pedal harder to depress and the steering wheel heavier to turn. Decelerate as much as possible before turning off the hybrid system.